

HD VIDEO SWITCHER V-8HD

Version 2.0 and later

Startup Guide



Checking the Included Items

Check that all of the included items are present. If any of the included items are missing, contact your dealer.

- V-8HD unit
- AC adaptor
- Power cord
- Startup Guide (this document)
- Leaflet "USING THE UNIT SAFELY"

PDF Manual (download from the Web)

Details on operations and menu lists are provided in "Reference Manual" (PDF).

Downloading

1. Access the Roland website.
<https://proav.roland.com>
2. Move to the product page → click "Support" → download the applicable PDF file.



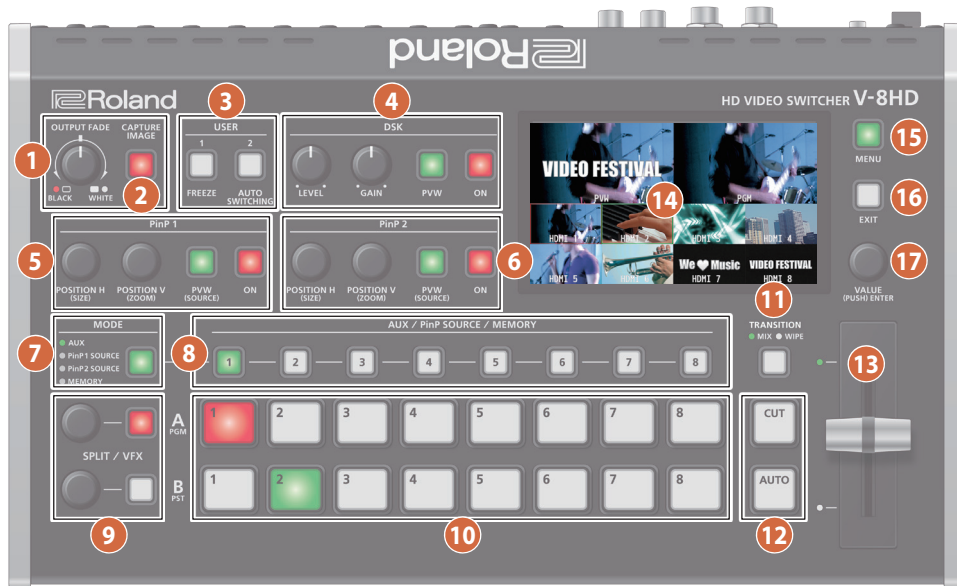
Before using the unit, ensure that its system program is at the most recent version. For information on available upgrades for the system program, see the Roland website (<https://proav.roland.com/>).

You can check the system program version by Pressing the [MENU] button → "SYSTEM" → "VERSION."

Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY" and Startup Guide (p. 11)). After reading, keep the document(s) where it will be available for immediate reference.

Panel Descriptions

Top Panel / Side Panel



Name	Explanation						
1 [OUTPUT FADE] knob	The program output video and audio fade in/out. Turning the knob toward the left fades the output to black, and turning the knob toward the right fades the output to white.						
2 [CAPTURE IMAGE] button	Captures a still image from the input/output video.						
3 USER							
[1], [2] button	Execute the functions that are assigned by the menu settings. With the factory settings, the following functions are assigned.						
	<table border="1"> <tr> <td>[1]</td> <td>FREEZE: Stops (freezes) input video.</td> </tr> <tr> <td>[2]</td> <td>AUTO SWITCHING: Automatically switches the input video.</td> </tr> </table>	[1]	FREEZE: Stops (freezes) input video.	[2]	AUTO SWITCHING: Automatically switches the input video.		
[1]	FREEZE: Stops (freezes) input video.						
[2]	AUTO SWITCHING: Automatically switches the input video.						
4 DSK							
[LEVEL] knob	During DSK compositing, this adjusts the amount of keying (transparency).						
[GAIN] knob	During DSK compositing, this adjusts the degree of edge blur (the semi-transmissive region) for keying.						
[PVW] button	When this is on (lit), it makes the DSK compositing results the preview output.						
[ON] button	This switches DSK composition on or off.						
	<table border="1"> <tr> <td>Lit</td> <td>DSK composition on</td> </tr> <tr> <td>Blink</td> <td>Currently switching video</td> </tr> <tr> <td>Unlit</td> <td>DSK composition off</td> </tr> </table>	Lit	DSK composition on	Blink	Currently switching video	Unlit	DSK composition off
Lit	DSK composition on						
Blink	Currently switching video						
Unlit	DSK composition off						

Name	Explanation													
5 PinP 1														
[POSITION H] knob	During PinP 1 compositing, this adjusts the horizontal display position of the inset screen.													
[POSITION V] knob	During PinP 1 compositing, this adjusts the vertical display position of the inset screen.													
[PVW] button	When this is on (lit), it makes the PinP 1 compositing results the preview output.													
[ON] button	This switches PinP 1 composition on or off.													
	<table border="1"> <tr> <td>Lit</td> <td>PinP 1 composition on</td> </tr> <tr> <td>Blink</td> <td>Currently switching video</td> </tr> <tr> <td>Unlit</td> <td>PinP 1 composition off</td> </tr> </table>	Lit	PinP 1 composition on	Blink	Currently switching video	Unlit	PinP 1 composition off							
Lit	PinP 1 composition on													
Blink	Currently switching video													
Unlit	PinP 1 composition off													
6 PinP 2														
[POSITION H] knob	During PinP 2 compositing, this adjusts the horizontal display position of the inset screen.													
[POSITION V] knob	During PinP 2 compositing, this adjusts the vertical display position of the inset screen.													
[PVW] button	When this is on (lit), it makes the PinP 2 compositing results the preview output.													
[ON] button	This switches PinP 2 composition on or off.													
	<table border="1"> <tr> <td>Lit</td> <td>PinP 2 composition on</td> </tr> <tr> <td>Blink</td> <td>Currently switching video</td> </tr> <tr> <td>Unlit</td> <td>PinP 2 composition off</td> </tr> </table>	Lit	PinP 2 composition on	Blink	Currently switching video	Unlit	PinP 2 composition off							
Lit	PinP 2 composition on													
Blink	Currently switching video													
Unlit	PinP 2 composition off													
7 MODE														
[MODE] button	This switches the functioning of the AUX / PinP SOURCE / MEMORY [1]–[8] buttons. The lit color of the button indicates the function that is selected.													
	<table border="1"> <tr> <td rowspan="2">Pressing</td> <td>Green</td> <td>AUX</td> </tr> <tr> <td>Yellow</td> <td>PinP 1 SOURCE</td> </tr> <tr> <td rowspan="2">Long-pressing</td> <td>Magenta</td> <td>PinP 2 SOURCE</td> </tr> <tr> <td>Blue</td> <td>MEMORY</td> </tr> <tr> <td></td> <td>Orange</td> <td>MACRO</td> </tr> </table>	Pressing	Green	AUX	Yellow	PinP 1 SOURCE	Long-pressing	Magenta	PinP 2 SOURCE	Blue	MEMORY		Orange	MACRO
Pressing	Green		AUX											
	Yellow	PinP 1 SOURCE												
Long-pressing	Magenta	PinP 2 SOURCE												
	Blue	MEMORY												
	Orange	MACRO												

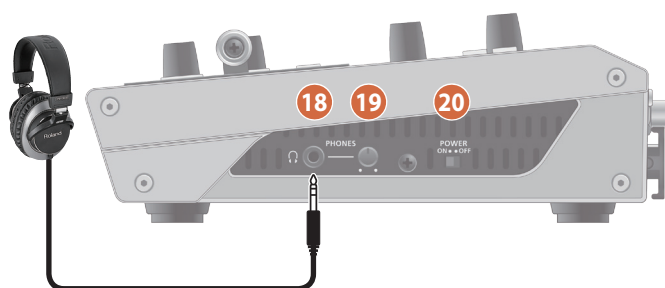
Name	Explanation						
8 AUX / PinP SOURCE / MEMORY							
[1]–[8] buttons	Select the object of operation according to the function selected by the [MODE] button. The selected button lights up in red. The respective buttons also function as indicators showing the input status of the video. <table border="1"> <tr> <td>Lit white</td> <td>Valid video is being input.</td> </tr> <tr> <td>Blink white</td> <td>Video whose format differs from the system format setting is input.</td> </tr> <tr> <td>Unlit</td> <td>No video is input.</td> </tr> </table>	Lit white	Valid video is being input.	Blink white	Video whose format differs from the system format setting is input.	Unlit	No video is input.
Lit white	Valid video is being input.						
Blink white	Video whose format differs from the system format setting is input.						
Unlit	No video is input.						
[MODE] button	Explanation						
AUX	The buttons function as AUX-bus selection buttons. They select the video (channel 1–8) to send to the AUX bus.						
PinP1 SOURCE	The buttons function as source screen select buttons for PinP 1. The buttons select the video (channels 1–8) that is shown in the inset screen of PinP 1.						
PinP2 SOURCE	The buttons function as source screen select buttons for PinP 2. The buttons select the video (channels 1–8) that is shown in the inset screen of PinP 2.						
MEMORY	The buttons function as preset-memory selection buttons. These save video and audio settings, the state of the operation panel, and other current settings, and call up settings saved in memory. Press this button to recall settings; long-press this button to save settings.						
MACRO	The buttons function as macro selection buttons. Executes a macro (a series of recorded operations).						

9 SPLIT / VFX A, SPLIT / VFX B	
SPLIT/VFX [A] knob	Adjust the depth of the effect when split/visual effect A is on.
SPLIT/VFX [B] knob	Adjust the depth of the effect when split/visual effect B is on.
* By holding down the [SPLIT/VFX] button and turning the [SPLIT/VFX] knob, you can change the type of split/visual effect.	
SPLIT/VFX [A] button	If this is on (lit), the effect of split/visual effect A is applied to the video selected by the Cross-point A [1]–[8] buttons.
SPLIT/VFX [B] button	If this is on (lit), the effect of split/visual effect B is applied to the video selected by the Cross-point B [1]–[8] buttons.
* If the SPLIT/VFX type is set to split, it is not possible to turn both A and B on.	

10 A/PGM, B/PST	
Cross-point A [1]–[8] buttons	Selects the video to input to bus A of the video mixer. The selected button lights up in red. When the SPLIT/VFX [A] button is on, the split/visual effect A effect is applied to the video.
Cross-point B [1]–[8] buttons	Selects the video to input to bus B of the video mixer. The selected button lights up in green. * While compositing of the video is in progress it lit red. When the SPLIT/VFX [B] button is on, the split/visual effect B effect is applied to the video.

Name	Explanation				
11 [TRANSITION] button	Selects the video transition effects. <table border="1"> <tr> <td>MIX</td> <td>The two pictures are blended together as the video is switched.</td> </tr> <tr> <td>WIPE</td> <td>The original video is broken into by the next video.</td> </tr> </table>	MIX	The two pictures are blended together as the video is switched.	WIPE	The original video is broken into by the next video.
MIX	The two pictures are blended together as the video is switched.				
WIPE	The original video is broken into by the next video.				
12 [CUT] button [AUTO] button	These make the preset video (the video to output next) the final output. <table border="1"> <tr> <td>[CUT]</td> <td>The picture switches instantly.</td> </tr> <tr> <td>[AUTO]</td> <td>The picture switches with a transition effect applied.</td> </tr> </table>	[CUT]	The picture switches instantly.	[AUTO]	The picture switches with a transition effect applied.
[CUT]	The picture switches instantly.				
[AUTO]	The picture switches with a transition effect applied.				
13 Video fader	Manually switch between the videos being input to bus A and B, and send them to the program output.				
Transition indicators	The indicator for the final-output bus end lights up.				
14 Monitor	Shows the input/output video, a still image, or a menu screen.				
15 [MENU] button	Switches between displaying or hiding the menu. The menu appears on the built-in monitor and the display connected to the OUTPUT 3 connector.				
16 [EXIT] button	Returns you to the menu one level higher.				
17 [VALUE] knob	<table border="1"> <tr> <td>Turning</td> <td>Selects a menu item or changes a setting value.</td> </tr> <tr> <td>Pressing</td> <td>Accepts the selected menu item or applies changes to a setting. It also executes operations.</td> </tr> </table>	Turning	Selects a menu item or changes a setting value.	Pressing	Accepts the selected menu item or applies changes to a setting. It also executes operations.
Turning	Selects a menu item or changes a setting value.				
Pressing	Accepts the selected menu item or applies changes to a setting. It also executes operations.				

Side panel



Name	Explanation
18 PHONES jack (Stereo miniature type)	Connect headphones.
19 [PHONES] knob	Adjusts the volume of the headphones.
20 [POWER] switch	Turns the power on/off.

English

日本語

Deutsch

Français

Italiano

Español

Português

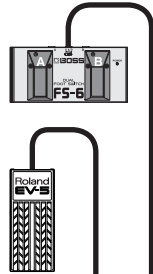
Rear Panel (Connecting Your Equipment)

- * To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- * Be sure to use cables and adaptor plugs with the proper connectors matching those of the other devices you are using.

CTL/EXP 1, 2 jacks

Connect footswitches (sold separately: BOSS FS-6, etc.) or expression pedals (sold separately: EV-5, etc.). This is used when using your foot to control operations such as video switching.

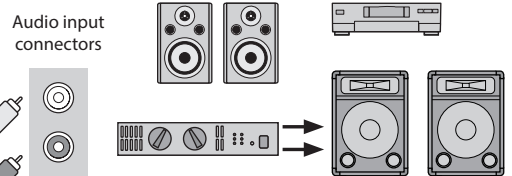
* Use only the specified expression pedal (EV-5, BOSS FV-500L, or FV-500H sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.



AUDIO OUT L, R jacks

These output the results of audio mixing.

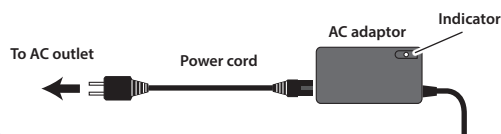
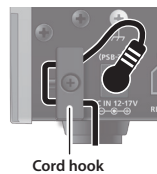
Connect them to an audio recording deck, amplifier, speakers, or other such equipment.



DC IN jack

Connect the included AC adaptor to this jack.

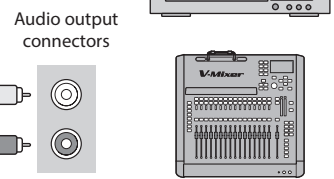
* Use the cord hook to secure the cord of the AC adaptor as shown in the illustration.



AUDIO IN L, R jacks

Inputs the audio signals.

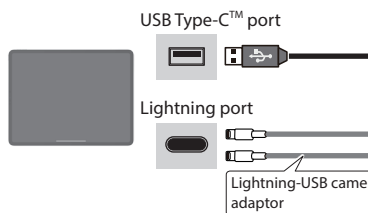
Connect an audio mixer, CD players, or other such audio equipment.



Ground terminal

Connect this to an external earth or ground if necessary.

REMOTE port

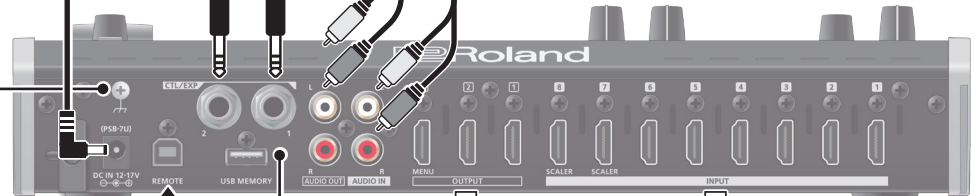


You can use a commercially available connection cable or adaptor cable (Lightning-USB camera adaptor) to connect an iPad, and remotely control the V-8HD.

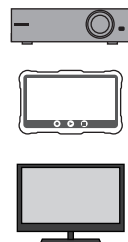
USB MEMORY port

Connect a USB flash drive to this port. You use it when importing still images or when saving or loading settings for the unit.

* Never turn off the power or remove the USB flash drive while the USB flash drive is being accessed.



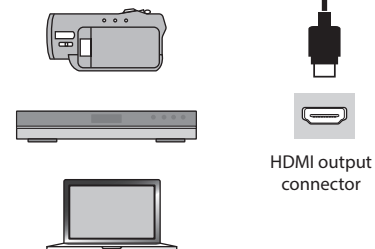
OUTPUT 1-3 connectors



These output video. Connect projectors, recording equipment, and external displays.

* The V-8HD menu is shown on the display that's connected to the OUTPUT 3 connector.

INPUT 1-8 connectors



These input video.

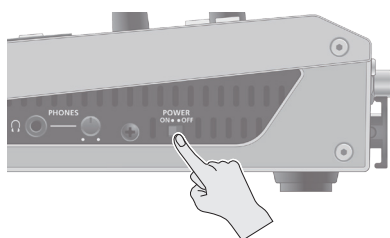
Connect these to a video camera, video device such as a BD player, or a computer that is equipped with an HDMI output connector.

Turning the Power On/Off

* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

Turning the power on

1. Make sure all devices are turned off.
2. Turn on the [POWER] switch on the V-8HD to turn on the power.



3. Turn on the power to the source devices.
Turn on the power to video cameras or other source equipment connected to input connectors on the V-8HD.
4. Turn on the power to the output devices.
Turn on the power to projectors or other devices connected to output connectors on the V-8HD.

Turning the power off

1. Turn off the power in the sequence of first the output equipment, and then the sources.
2. Turn off the [POWER] switch on the V-8HD to turn off the power.

About the Auto Off function

The power to the V-8HD turns off automatically when all of the following states persist for 240 minutes (Auto Off function).

- No operation performed on the V-8HD
- No audio or video input
- No equipment is connected to the OUTPUT connectors

If you do not want the power to be turned off automatically, disengage the Auto Off function. Press the [MENU] button → "SYSTEM" → set "AUTO OFF" to "OFF."

* Unsaved data is lost when the power turns off. Before turning the power off, save the data that you want to keep.

* To restore power, turn the power on again.

Using the Menu

This explains how to display menus and make settings for video and for the V-8HD itself.

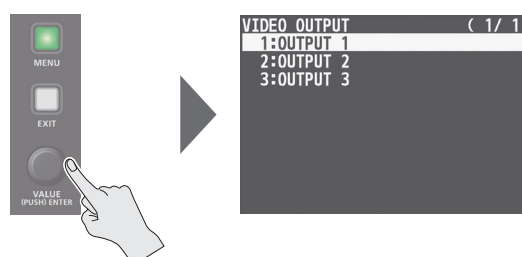
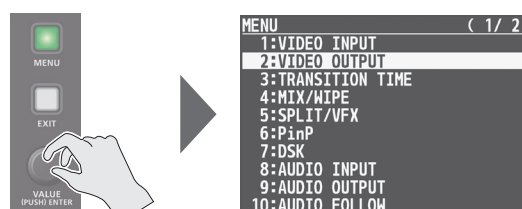
* The menu is also appears on the display connected to the OUTPUT 3 connector.

1. Press the [MENU] button to display the menu.



The [MENU] button lights up, the menu categories are displayed.

2. Turn the [VALUE] knob to select a category, and press the [VALUE] knob to confirm.



The menu for the selected category is displayed.

3. Turn the [VALUE] knob to select a menu item, then press the [VALUE] knob to confirm.

The cursor moves to the setting value.

- If the menu item is located at a deeper level, repeat step 3.
- Pressing the [EXIT] button moves you back one level higher.

4. Turn the [VALUE] knob to change the value of the setting.

- By turning the [VALUE] knob while pressing it, you can change the value more greatly.
- Pressing and holding the [VALUE] knob returns the current menu item you're setting to its default value.

5. Press the [VALUE] knob to apply the setting.

The cursor returns to the menu item.

6. Press the [MENU] button to quit the menu.

Video Operations

Using Mix/Wipe to Switch the Video

Here's how to switch between input video while applying an effect, and final output.

About the operation mode for video transitions

There are two operation modes for switching the video on the PGM/A bus and PST/B bus: the "PGM/PST mode" and the "A/B mode."

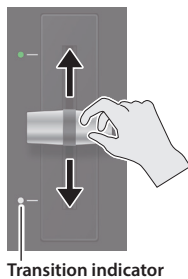
* With the factory settings, the operation mode is set to A/B mode.

Mode	Explanation
A/B	When the video fader is operated, the video at the bus position toward which the video fader is flipped always becomes the final output. When the [CUT] or [AUTO] button is operated, the video on the A bus and the video on the B bus become the final output in alternation.
PGM/PST	The video on the PGM bus is always the final output. The video on the PST bus is preset video (the video to be output next). Operating the video fader or the [CUT] or [AUTO] button makes the final video output and the preset video change places.

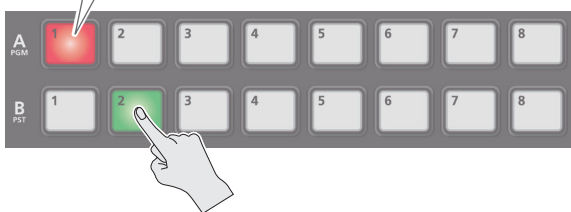
Switching in the A/B Mode

The video at the end to which the video fader is flipped is always the final output.

1. Flip the video fader all the way upward or downward.
2. Press a Cross-point [1]–[8] button at the end to which the video fader is not flipped to select the preset video (the video to output next).



Lit red: Final output video
Lit green: Preset video (the video to be output next)



The preset video appears in the PVW section of the monitor.

3. Press the [TRANSITION] button to select the transition effect.



The MIX or WIPE indicator is lit.

Mode	Explanation
MIX	The two videos are mixed as the transition occurs.
WIPE	The next video moves across to replace the original video.

4. Move the video fader in the direction opposite to the direction in step 1.

The video changes.

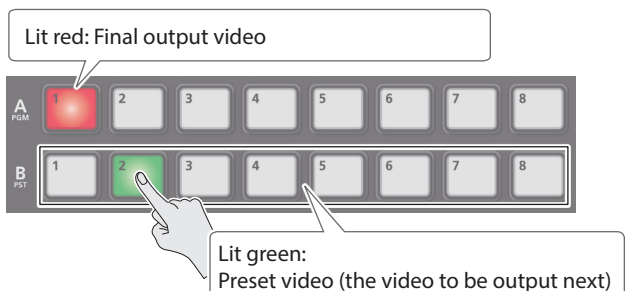
Switching in the PGM/PST Mode

1. Press the [MENU] button → "SYSTEM" → select "PANEL OPERATION," and press the [VALUE] knob.
2. Turn the [VALUE] knob to select "PGM/PST," then press the [VALUE] knob.

```

SYSTEM          ( 1 / 4 )
HDCP             OFF
FRAME RATE      59.94Hz
SYSTEM FORMAT   1080p
CUT SW ASSIGN   ---
AUTO SW ASSIGN  ---
PANEL OPERATION PGM/PST
PANEL LOCK      ENTER
AUX LINKED PGM OFF
    
```

3. Press the [MENU] button to quit the menu.
4. Flip the video fader all the way upward or downward.
5. Press the [TRANSITION] button to select the transition effect.
6. Press a Cross-point B [1]–[8] button to select the preset video (the video to be output next).



7. Move the video fader in the direction opposite to the direction in step 4.

The video changes.

When the video has switched completely, the illuminated state of the A [1]–[8] buttons and B [1]–[8] buttons is exchanged.

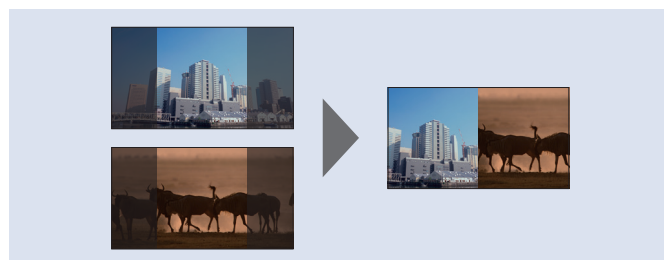
MEMO

You can change the transition pattern used for a mix or wipe. For details, please refer to "Reference Manual" (PDF).

Compositing Video with Split (SPLIT)

This composites two video streams in a split screen.

The final output video is displayed above or on the left, and the preset video (the video to be output next) is displayed below or on the right.



Specifying a SPLIT Composition Pattern

This makes the settings for the split composition pattern to match the video you want to composite.

1. Press the [MENU] button → “SPLIT/VFX” → select “SPLIT/VFX A” or “SPLIT/VFX B,” and press the [VALUE] knob.

SPLIT/VFX A	(1 / 1)
SPLIT/VFX	OFF
SPLIT/VFX TYPE	PART MOSAIC
POSITION H	0.0%
POSITION V	0.0%
AREA SIZE	40.0%
-CORRECTION H	100.0%
-CORRECTION V	100.0%
BLOCK SIZE	64x64
MIX LEVEL	255

2. Turn the [VALUE] knob to select “SPLIT/VFX TYPE,” then press the [VALUE] knob.

SPLIT/VFX A	(1 / 1)
SPLIT/VFX	ON
SPLIT/VFX TYPE	SPLIT V
A-CENTER	0.0%
B-CENTER	0.0%
CENTER POSITION	0.0%
BORDER COLOR	WHITE
BORDER WIDTH	4

3. Turn the [VALUE] knob to select the SPLIT type, then press the [VALUE] knob.

You can select “SPLIT H” or “SPLIT V.”

* For more about the SPLIT types and effects, refer to “Reference Manual” (PDF).

4. Press the [MENU] button to quit the menu.

Compositing Using SPLIT

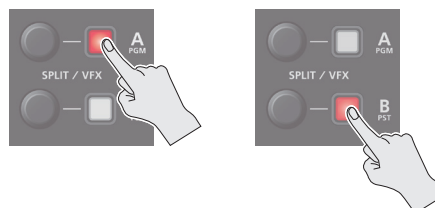
1. Press a Cross-point A [1]–[8] button to select the video you want to display above or on the left.



2. Press a Cross-point B [1]–[8] button to select the video you want to display below or on the right.

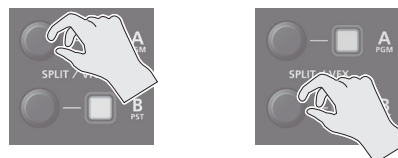


3. Press the SPLIT/VFX [A] or [B] button to turn on SPLIT (lighted).



The video you selected in steps 1 and 2 is composited.

4. Turn the SPLIT/VFX [A] or [B] knob to adjust the display position of the video.



MEMO

By turning the knob while pressing it, you can adjust the position of the dividing line between the two videos.

5. To turn off SPLIT, press the SPLIT/VFX [A] or [B] button once again.

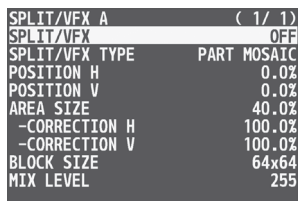
Using a Visual Effect (VFX)

Here's how you can apply an effect to the entire video, such as varying the video's color or shape.

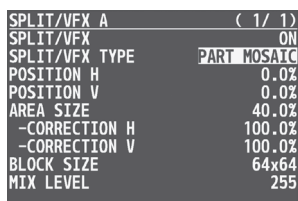
You can apply a visual effect (VFX) to the A/PGM bus and B/PST bus respectively.

Selecting a Visual Effect

1. Press the [MENU] button → "SPLIT/VFX" → select "SPLIT/VFX A" or "SPLIT/VFX B," and press the [VALUE] knob.



2. Turn the [VALUE] knob to select "SPLIT/VFX TYPE," then press the [VALUE] knob.



3. Turn the [VALUE] knob to select the visual effect, then press the [VALUE] knob.

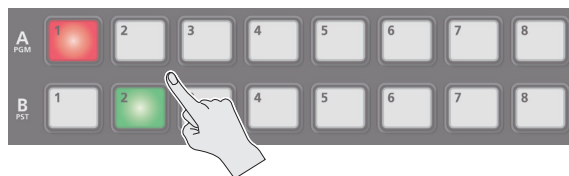
* With the factory settings, "PART MOSAIC" is specified.

Type	Explanation
PART MOSAIC	Applies a mosaic to the selected region.
BACKGROUND MOSAIC	Applies a mosaic to the portion outside the selected region.
FULL MOSAIC	Applies a mosaic to the entire screen.
WAVE	Makes the video wavy.
RGB REPLACE	Exchanges the colors.
COLORPASS	Turns the video black and white while preserving a specific color.
NEGATIVE	Inverts the brightness and colors.
COLORIZE	Adds color to the video.
POSTERIZE	Changes the gradations in brightness.
SILHOUETTE	Separates the video into light and dark areas, and makes the dark areas black and adds a different color to the light areas.
EMBOSS	Adds a bas-relief effect to the video.
FIND EDGES	Extracts contours.
MONOCOLOR	Turns the video monochrome.
HUE OFFSET	Changes the visual character by controlling the hue.
SATURATION OFFSET	Changes the visual character by controlling the saturation.
VALUE OFFSET	Changes the visual character by controlling the brightness.

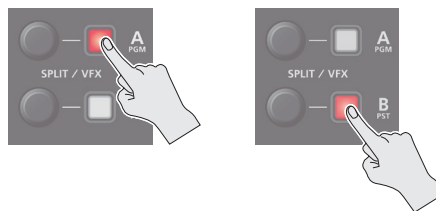
4. Press the [MENU] button to quit the menu.

Applying Visual Effects

1. Press a cross-point A or B [1]–[8] button to output the video to which you want to apply the effect.

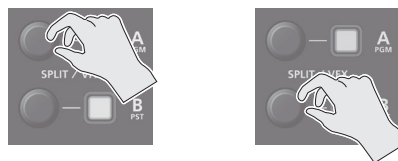


2. Press the SPLIT/VFX [A] or [B] button to turn on the visual effect (making the button light up).



The visual effect is applied to the output video.

3. Turn the SPLIT/VFX [A] or [B] knob to adjust the degree of effect applied.



MEMO

- For "PART MOSAIC" and "BACKGROUND MOSAIC," you can adjust the following settings.

Knob operation	Explanation
Turning	Adjusts the horizontal position of the selected area.
	While pressing an A or B [1]–[8] button: Adjusts the size of the selected area.
	Adjusts the vertical position of the selected area.
Turn while pressing	While pressing an A or B [1]–[8] button: Specifies the fineness (block size) of the mosaic.

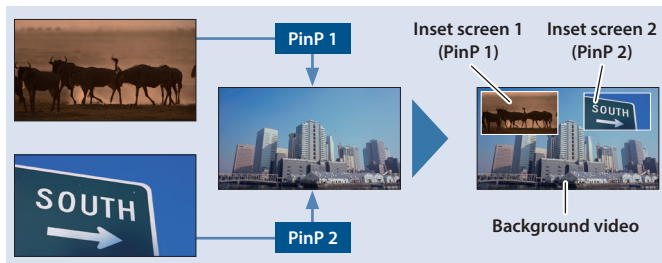
- Settings for the effect that is controlled by the SPLIT/VFX [A] or [B] knobs can be checked in the VFX menu.
- By holding down the SPLIT/VFX [A] ([B]) button and turning the SPLIT/VFX [A] ([B]) knob, you can change the type of visual effect.

4. To turn off a visual effect, press the SPLIT/VFX [A] or [B] button once again.

Compositing Video with Picture-in-Picture (PinP)

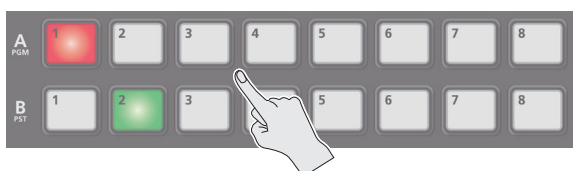
Here's how to composite an inset screen (a small separate screen) onto the background video.

You can use PinP 1 and PinP 2 simultaneously to composite two inset screens.

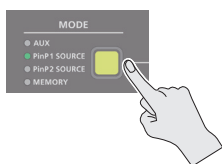


Here we explain the procedure for compositing video using "PinP 1." You can also composite video using the same procedure using "PinP 2."

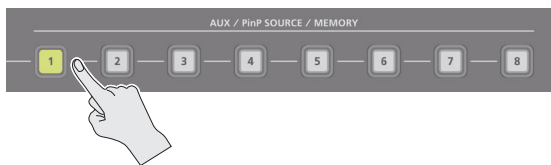
1. Press a Cross-point A or B [1]–[8] button to select the video you want to make the background video.



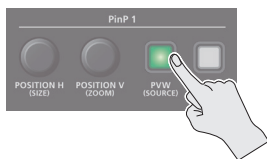
2. Press the [MODE] button to select "PinP1 SOURCE."



3. Press a PinP SOURCE [1]–[8] button to select the video you want to make the inset screen.



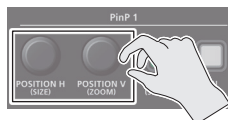
4. Press the PinP 1 [PVW] button to preview-output the video of the inset screen.



The PinP 1 [PVW] button lights up in green and the inset screen appears in the PVW section of the monitor, allowing you to check the inset screen's location and size.

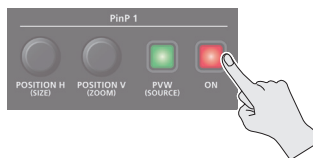
At this stage, the final output has not yet been changed.

5. Use the PinP 1 [POSITION H] and [POSITION V] knobs to adjust the display position of the inset screen.



Knob	Explanation
[POSITION H]	Adjusts the inset screen's display position horizontally. Turn while pressing: Adjusts the size of the inset screen.
[POSITION V]	Adjusts the inset screen's display position vertically. Turn while pressing: Adjusts the zoom of the video shown in the inset screen.

6. Press the PinP 1 [ON] button to turn on PinP compositing (lit).



The PinP 1 [ON] button lights up in red, and the inset screen is composited onto the background video and the result is sent to final output.

7. To turn off PinP compositing, press the PinP 1 [ON] button once again.

MEMO

- By long-pressing the PinP 1 (2) [PVW] button, you can access the mode for selecting the inset screen without having to press the [MODE] button and then select "PinP 1 SOURCE" or "PinP 2 SOURCE."
While pressing the PinP 1 (2) [PVW] button, press a PinP SOURCE [1]–[8] button to select the video that you want to use as the inset screen.
- The fade time over which the inset screen appears or disappears when you press the [ON] button is specified by the setting of the TRANSITION TIME menu item "PinP 1 TIME" or "PinP 2 TIME."
- By holding down the PinP 1 (PinP 2) [PVW] button and pressing the [MENU] button, the PinP 1 or PinP 2 menu appears.
- You can make PinP/DSK composition (p. 10) turn on/off in tandem with the video transitions.
➔ "Reference Manual" (PDF)

After step 5, use the [AUTO] and [CUT] buttons or operate the video fader to switch the video. PinP composition turns on, and the composited result that is previewed is sent to final output.

Compositing Video with Downstream Keyer (DSK)

You can further composite titles, subtitles/captions and other video on video composited using split (p. 7) or PinP (p. 9).

DSK Types

For DSK composition, you can use a luminance key, a chroma key or an alpha channel key.

Luminance key (factory settings)

You can cut out a logo or image by turning its black or white portion transparent, and then superimpose it on the background video.



Chroma key

You can cut out a video by turning its blue or green portion transparent, and then superimpose it on the background video. You can select a color from the video material to set as the key color.



Alpha channel key

Use alpha channels (areas which contain transparency data) to cut out images and place them against different background video as a composite.



Using Luminance Key

Here we explain how to use the factory default settings (luminance key (black)/self key) for compositing images.

1. Select the DSK video source.

The sample image (still image) saved to STILL 1 is set as the DSK composition video source by factory default.

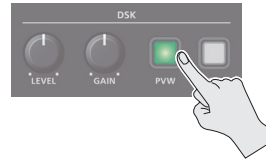
When you want to use text or image on another channel, use the [MENU] button → “DSK” → “DSK SOURCE” to change the channel.

When you want to use a still image other than STILL 1 saved in the unit, set this to “STILL 2–8.”

2. Output the background video.

At the PVW section of the monitor, check the video to be made the background.

3. Press the DSK [PVW] button to turn on the preview output (lit).



The DSK [PVW] button lights up in green, and a preview of the composition results is displayed in the PVW section of the monitor.

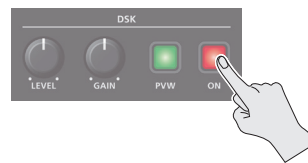
At this stage, the final output has not yet been changed.

4. Turn the DSK [LEVEL] and [GAIN] knob to adjust the degree of effect applied.



Knob	Explanation
[LEVEL]	Adjusts the degree of extraction (transparency) for the key.
[GAIN]	Adjusts the degree of edge blur (semi-transmissive region) for the key.

5. Press the DSK [ON] button to turn on DSK composition (lit).



The DSK [ON] button lights up in red, and the composition results is sent to final output.

6. To turn off DSK compositing, press the DSK [ON] button once again.

MEMO

- The fade time over which the logo/image appears or disappears when you press the DSK [ON] button is specified by the setting of the TRANSITION TIME menu item “DSK TIME.”
- An external key can also be used for DSK compositing.
 - ➔ “Reference Manual” (PDF)

USING THE UNIT SAFELY

⚠ WARNING

Concerning the Auto Off function

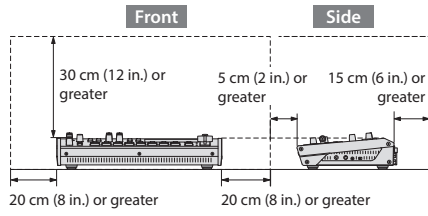
The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function).

If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 5).



Secure a sufficient amount of space at the setup location

Since this unit normally emits a slight amount of heat, make sure to secure sufficient space around it, as shown below.



⚠ WARNING

Use only the supplied AC adaptor and the correct voltage

Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.



Use only the supplied power cord

Use only the attached power cord. Also, the supplied power cord must not be used with any other device.



⚠ CAUTION

Handle the ground terminal carefully

If you remove the screw from the ground terminal, be sure to replace it; don't leave it lying around where it could accidentally be swallowed by small children. When refastening the screw, make that it is firmly fastened, so it won't come loose.



IMPORTANT NOTES

Power Supply

- Place the AC adaptor so the side with the indicator faces upwards. The indicator will light when you plug the AC adaptor into an AC outlet.

Placement

- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.

Repairs and Data

- Before sending the unit away for repairs, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information. Although we will do our utmost to preserve the data stored in your unit when we carry out repairs, in some cases, such as when the memory section is physically damaged, restoration of the stored content may be impossible. Roland assumes no liability concerning the restoration of any stored content that has been lost.

Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- Never strike or apply strong pressure to the display.
- Use only the specified expression pedal. By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.
- This unit allows you to switch images at high speed. For some people, viewing such images can cause headache, nausea, or other discomfort. Do not use this unit to create video that might cause these types of health problems. Roland Corporation will accept no responsibility for any such health problems that may occur in yourself or in viewers.
- Do not use connection cables that contain a built-in resistor.
- This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

Using External Memories

- Please observe the following precautions when handling external memory devices. Also, make sure to carefully observe all the precautions that were supplied with the external memory device.
 - Do not remove the device while reading/writing is in progress.
 - To prevent damage from static electricity, discharge all static electricity from your person before handling the device.

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